## Contents Volume 160

## Volume 160, Nos. 1-2, 15 July 1998

The method of arbitrary lines in optimal shape design: problems with an elliptic state equation J. Chleboun and L.S. Xanthis	1
The discrete Korn's type inequality in subspaces and iterative methods for thin elastic structures E.E. Ovtchinnikov and L.S. Xanthis	23
Long series analysis of laminar flow through parallel and uniformly porous walls of different permeability	
N.M. Bujurke, V.S. Madalli and B.G. Mulimani	39
Numerical shakedown analysis of damaged structures  A. Hachemi and D. Weichert	57
Three-dimensional simulations of Marangoni-Benard convection in small containers by the least-squares finite element method	
ST. Yu, BN. Jiang, J. Wu and J.C. Duh	71
Solution of flow problems using unstructured grids on distributed memory platforms D.G. Koubogiannis, L.C. Poussoulidis, D.V. Rovas and K.C. Giannakoglou	89
Efficient iterative solution of constrained finite element analyses  P. Saint-Georges, Y. Notay and G. Warzée	101
FEM-remeshing technique applied to crack growth problems  A. Trädegård, F. Nilsson and S. Östlund	115
Strain-based transient-gradient damage model for failure analyses  M.G.D. Geers, R. de Borst, W.A.M. Brekelmans and R.H.J. Peerlings	133
Assessment of various low-Reynolds number turbulence models in shock-boundary layer interaction G. Barakos and D. Drikakis	155
On constructing accurate recovered stress fields for the finite element solution of Reissner-Mindlin plate bending problems	
S.H. Lo and C.K. Lee	175
Navigation and control of the motion of a riderless bicycle  Y. Yavin	193
Erratum to "A hybrid approach to the transient collapse analysis of thin walled frameworks II" [Comp. Methods Appl. Mech. Engrg. 148 (1997) 423-437]	
R. Vignjevic	203

## Volume 160, Nos. 3-4, 23 July 1998

Fuzzy number theory to obtain conservative results with respect to probability P. Ferrari and M. Savoia	205
Finite element analysis of flexible multibody systems with fuzzy parameters T.M. Wasfy and A.K. Noor	223
A numerical method with a posteriori error estimation for determining the path taken by a propagating crack  T.J. Stone and I. Babuška	245
Core spreading vortex methods in two-dimensional viscous flows  T. Kida and T. Nakajima	273
Error on the constitutive relation in the nonlinear formulation of elastic beams: the plane case B. Nedjar and M. Reynier	299
Analytical solutions of impact problems of rod structures with springs  Xing YuFeng and Zhu DeChao	315
Elastic eigenstates in finite element modelling of large anisotropic elasticity  P. Dłużewski and P. Rodzik	325
Computational models for weakly dispersive nonlinear water waves H.P. Langtangen and G. Pedersen	337
A monotone time relaxation matrix procedure for improved convergence to steady-state for CFD algorithms  S. Roy and A.J. Baker	359
A geometrical nonlinear eccentric 3D-beam element with arbitrary cross-sections F. Gruttmann, R. Sauer and W. Wagner	383
Author Index of Volume 160	401
Subject Index of Volume 160	403
Instructions to Authors	409
Contents Volume 160	411

